

Notice of Allowability	Application No.	Applicant(s)	
	09/943,456	SWOBODA, GARY L.	
	Examiner	Art Unit	
	Russ Guill	2123	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to an amendment filed August 22, 2006.
2. ☒ The allowed claim(s) is/are 1,5,13 and 17.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____ |
|---|---|

DETAILED ACTION

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for the following examiner's amendment was given in a telephone interview with Robert D. Marshall on September 15, 2006.

The claims have been amended as follows:

Claim 13, line 22, the words "secti ons" have been replaced with the word --sections--.

Claim 17, line 6, the words "emulati on" have been replaced with the word --emulation--.

Claim 17, line 14, the words "inte grated" have been replaced with the word --integrated--.

Claim 17, line 19, the word "sequencewith" has been replaced with the words --sequence with--.

Authorization for the following examiner's amendment was given in a telephone interview with Robert D. Marshall on October 27, 2006.

The specification has been amended as follows:

Page 1, line 5, the words "2001 and incorporated" have been replaced by --2001, now U.S. Patent 6,985,848, and incorporated--.

Page 10, line 15, the following has been added --FIGURE 23A illustrates exemplary operations which can be performed by the transmission formatter of FIGURES 22 and FIGURE 22A.

FIGURE 23B illustrates exemplary operations which can be performed by the transmission formatter of FIGURES 22 and FIGURE 22A.--.

Allowable Subject Matter

2. Claims 1, 5, 13 and 17 are allowed over the prior art of record.
3. The previous Office Action contained the examiner's statement of reasons for allowance for claims 1, 5, 13 and 17. However, since claim 17 was amended, a new examiner's statement of reasons for allowance is provided for claim 17.
4. The following is an examiner's statement of reasons for allowance:
5. While Edwards065 (U.S. Patent Number 6,918,065) teaches an integrated circuit device, a data processing portion for performing data processing operations, an emulation information collector coupled to said data processing portion for receiving emulation data therefrom, said collector operable for arranging the emulation data and associated emulation control information into information blocks, a link coupled to said

collector for permitting said collector to communicate with an external device located externally of said integrated circuit device, said collector operable for providing to said link a sequence of said information blocks to be output to the external device, said collector further operable for providing some of the information blocks of the sequence with relative proportions of emulation control information and emulation data that differ from the relative proportions of emulation control information and emulation data in other blocks of the sequence, and Edwards⁰⁴⁷ (U.S. Patent Number 6,530,047) teaches a plurality of terminals coupled to said collector for permitting said collector to communicate with an emulation controller located externally of said integrated circuit device, a plurality of terminals coupled to said collector for permitting said collector to communicate with an emulation controller located externally of said integrated circuit device, said collector operable for providing to said terminals a sequence of said information blocks to be output to the emulation controller, and admitted prior art of the Applicant teaches arranging the emulation data and associated emulation control information into fixed length information blocks, none of these references taken either alone or in combination with the prior art of record teaches an integrated circuit device, specifically including:

- a. Regarding claim 17, "the emulation data in one of the information blocks includes bits indicating whether the data processing portion performed data processing operations during a corresponding clock cycle";

in combination with the remaining features and elements of the claimed invention. It is for these reasons that the Applicant's invention defines over the prior art of record.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russ Guill whose telephone number is 571-272-7955.

The examiner can normally be reached on Monday - Friday 10:00 AM - 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Rodriguez can be reached on 571-272-3753. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Any inquiry of a general nature or relating to the status of this application should be directed to the TC2100 Group Receptionist: 571-272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Russ Guill
Examiner
Art Unit 2123

RG


PAUL RODRIGUEZ
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100
11/17/06